

ABSTRACT OF THE DISCLOSURE

[00031] A robotic paint applicator having a plurality of relatively movable housing enclosures each including an explosion proof motor including a housing having a gas inlet and outlet, and a source of non-combustible gas under pressure connected to each motor housing inlet circulating non-combustible gas through the motor housing and directing non-combustible gas into the robot housing enclosures. The robot housing enclosures are substantially air-tight and interconnected with a control unit operating an inlet valve to maintain a predetermined pressure of non-combustible gas within each robot housing enclosure.

10 The method of this invention includes purging the motor housings and robot enclosures at a first pressure and maintaining a lesser pressure of non-combustible gas following purging.